QUASAR
AUDIOMETRIC EXAM MODULE
RELEASE NOTES

Patch ACKQ* 3.0*12

November 2005

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RELEASE NOTES

Overview

This manual briefly discusses the major changes to the AUDIOMETRIC EXAM MODULE that is a part of the QUASAR package. For more information on the functionality, turn to the complete Audiometric Exam Module User manual that has been updated for patch 12. For more information on the technical changes refer to on-line descriptions of files/fields and the Technical Manual that has also been updated.

The Audiometric Exam Module provides functionality for Audiology and Speech Pathology Services (ASPS), to simplify and enhance the entry, display and use of information obtained during an audiometric exam. It is comprised of two distinct applications:

Audiogram Enter/Edit [ACKQROES3E.EXE]
Audiogram Display [ACKQROES3.EXE]

In the audiometric exam module, records are stored in the local AUDIOMETRIC EXAM file (#509850.9) When signed, copies of the records are also transmitted from this file to the Denver Distribution Center (DDC) through the VA VistA Mailman system. At the DDC, data from these records is included with orders for hearing aids and repairs when ordered through the VistA Remote Order Entry System (ROES) package. They may also be viewed remotely from the ROES Patient Information screen in the ROES web application.

This patch addresses several issues that came up at the VAMC stations as a result of the initial release of the Audiometric Exam Module (patch ACKQ*3.0*3) as well as adding several enhancements. The changes have been made to the Windows based Enter/Edit and Display applications (for both the CPRS Toolbar and Desktop versions). Changes have also been made to the VistA part of the application. These changes include the AUDIOMETRIC EXAM file data dictionary, remote procedure calls and routines. This patch allows for entering three sets of testing values for Air and Bone readings: Initial, Retest and Final. The word REPEAT, in the prior two test system, has been replaced with the word FINAL to clarify the purpose. Only one set of masked readings are allowed and clinicians are encouraged to use the FINAL/MASKED row of readings for this purpose.

CHANGES/ADDITIONS TO FILE

#509850.9 –AUDIOMETRIC EXAM DATA FILE

The following fields were added to the file

.08	TRANSDUCER TYPE
.14	CLAIM NUMBER
.15	RETRANSMISSION DATE
.16	RETRANSMISSION USER
1.11	R TYMPANOGRAM TYPE
1.12	L TYMPANOGRAM TYPE
15.01	RETEST A/C THRESHOLD R 125
15.02	RETEST A/C THRESHOLD R 250
15.03	RETEST A/C THRESHOLD R 500
15.04	RETEST A/C THRESHOLD R 750
15.05	RETEST A/C THRESHOLD R 1000
15.06	RETEST A/C THRESHOLD R 1500
15.07	RETEST A/C THRESHOLD R 2000
15.08	RETEST A/C THRESHOLD R 3000
15.09	RETEST A/C THRESHOLD R 4000
15.1	RETEST A/C THRESHOLD R 6000
15.11	RETEST A/C THRESHOLD R 8000
35.01	RETEST A/C THRESHOLD L 125
35.02	RETEST A/C THRESHOLD L 250
35.03	RETEST A/C THRESHOLD L 500
35.04	RETEST A/C THRESHOLD L 750
35.05	RETEST A/C THRESHOLD L 1000
35.06	RETEST A/C THRESHOLD L 1500
35.07	RETEST A/C THRESHOLD L 2000
35.08	RETEST A/C THRESHOLD L 3000
35.09	RETEST A/C THRESHOLD L 4000
35.1	RETEST A/C THRESHOLD L 6000
35.11	RETEST A/C THRESHOLD L 8000
72.01	RETEST B/C THRESHOLD R 250
72.02	RETEST B/C THRESHOLD R 500
72.03	RETEST B/C THRESHOLD R 750
72.04	RETEST B/C THRESHOLD R 1000

72.05   RETEST B/C THRESHOLD R 1500

72.06   RETEST B/C THRESHOLD R 2000

72.07   RETEST B/C THRESHOLD R 3000

72.08   RETEST B/C THRESHOLD R 4000

72.09   RETEST B/C THRESHOLD R 6000

82.01   RETEST B/C THRESHOLD L 250

82.02   RETEST B/C THRESHOLD L 500

82.03   RETEST B/C THRESHOLD L 750

82.04   RETEST B/C THRESHOLD L 1000

82.05   RETEST B/C THRESHOLD L 1500

82.06   RETEST B/C THRESHOLD L 2000

82.07   RETEST B/C THRESHOLD L 3000

82.08   RETEST B/C THRESHOLD L 4000

82.09   RETEST B/C THRESHOLD L 6000

110.28   LIST R-1

110.29   LIST R-2

110.3   LIST R-3

110.31   LIST R-4

110.32   LIST R-5

111.28   LIST L-1

111.29   LIST L-2

111.3   LIST L-3

111.31   LIST L-4

111.32   LIST L-5

120.17   IAR BBN R

120.18   CAR BBN R

120.19   PK IMMITTANCE 678 R

120.2   WEBER R

120.21   PT STENGER R

120.22   RINNE R

120.23   OTHER TEST R

121.17   IAR BBN L

121.18   CAR BBN L

121.19   PK IMMITTANCE 678 L

121.2   WEBER L

121.21   PT STENGER L

121.22	RINNE L
121.23	OTHER TEST L
122	COMMENTS

The following fields have been renamed:

20.01-20.12	REPEAT changed to FINAL
40.01-40.12	REPEAT changed to FINAL
75.01-75.09	REPEAT changed to FINAL
85.01-85.09	REPEAT changed to FINAL
120.02	is now	PK IMMITTANCE 226 R
121.02	is now	PK IMMITTANCE 226 L

The following fields were starred for deletion:

.06	*VA ELIGIBILITY STATUS
11.01-11.12	*INITIAL A/C THRESHOLD TAGS R
21.01-21.12	*REPEAT A/C THRESHOLD TAGS R
31.02-31.12	*INITIAL A/C THRESHOLD TAGS L
41.01-41.12	*REPEAT A/C THRESHOLD TAGS L
50.01-50.12	*INITIAL A/C MASK LEVEL R
60.01-60.12	*INITIAL A/C MASK LEVEL L
71.01-71.09	*INITIAL B/C THRESH TAG R
76.01-76.09	*REPEAT B/C THRESH TAG R
81.01-81.09	*INITIAL B/C THRESH TAG L
86.01-86.09	*REPEAT B/C THRESH TAG L
90.01-90.09	*INITIAL B/C MASK LEVEL R
100.01-100.09	*INITIAL B/C MASK LEVEL L
110.08	*MATERIAL R-2
110.1	*PRESENTATION METHOD R-2
110.13	*MATERIAL R 3
110.15	*PRESENTATION METHOD R-3
110.18	*MATERIAL R 4
110.2	*PRESENTATION METHOD R-4
110.23	*MATERIAL R-5
110.25	*PRESENTATION METHOD R-5
111.05	*PRESENTATION METHOD L-1
111.08	*MATERIAL L-2
111.1	*PRESENTATION METHOD L-2
111.13	*MATERIAL L-3
111.15	*PRESENTATION METHOD L-3
111.18	*MATERIAL L-4
111.2	*PRESENTATION METHOD L-4
111.23	*MATERIAL L-5
111.25	*PRESENTATION METHOD L-5

The following fields have a new data type:

Initial A/C Thresholds (10.01-10.12, 30.01-30.12)	Numeric to Free Text
Final A/C Thresholds (20.01-20.12, 40.01-40.12)	Numeric to Free Text
Final A/C Mask Levels (51.01-51.12, 61.01-61.12)	Numeric to Free Text
Initial B/C Thresholds (70.01-70.09, 80.01-80.09)	Numeric to Free Text
Final B/C Thresholds (75.01-75.09, 85.01-85.09)	Numeric to Free Text
Final B/C Mask Levels (91.01-91.09, 101.01-101.09)	Numeric to Free Text
Word Test Percent Correct (110.04, 110.09, 110.14, 110.19, 110.24, 111.04, 111.09, 111.14, 111.19, 111.24)	Numeric to Free Text
Word Test Masking Levels (110.07, 110.12, 110.17, 110.22 110.27, 111.07, 111.12, 111.17, 111.22, 111.27	Numeric to Free Text
SRT Thresholds and Mask Levels (115.01-115.08)	Numeric to Free Text
IAR and CAR Thresholds (120.04-120.11, 121.04-121.11)	Numeric to Free Text
AR Half Life (120.14, 120.15, 121.14, 121.15)	Numeric to Free Text

The following fields have new limits:

PTA's	from 0 - 120	to -10 - 105
Presentation Levels	from 30 - 120	to 0 - 100
Pk Immittance	from 0 - 10	to 0 - 15
Equiv Ear Canal Vol	from 0 - 8	to 0 - 10

ENHANCEMENTS

1. **Removal of Buttons**
    In both audiogram GUI applications, the buttons previously on the screens have been replaced by menu options at the top of the form. This makes more of the screen available for the edit boxes and gives a less cluttered appearance.

2. **Loop to Another Patient or Record**
    In both the Edit and Display applications, a menu option (Get New Record) has been added to allow the user to go to another record without exiting the application. If accessing through CPRS, record selection is limited to the current patient. From the Desktop application, users may select another patient or go to another record for the same patient.

3. **Comments**
    A comment box has been added to the Edit application where the clinician can enter up to 300 characters of text. A checkbox has been inserted directly above the comment area for use if the clinician would like to automatically insert the words "NOT ADEQUATE FOR RATING PURPOSES". This text will be saved to the file and will be imported into VA form 10-2364.

4. **Update VA form 10-2364**
    VA form 10-2364 has been modified to reflect the changes made to the form since the release of patch ACKQ*3.0*3. Because of the above enhancement, the comment section of the form is no longer editable.

5. **Color Changes**
    Color has been removed from the data entry boxes. This allows for a cleaner, more understandable presentation.

6. **Retransmit Audiogram**
    In the Edit application, a menu option has been added to allow retransmission of a signed audiogram. This is necessary to transfer the speech, word and other readings that were not a part of the original transmission. The retransmission date will appear on the Edit form to prevent multiple or forgotten retransmissions.

7. **Removing Audiogram**
    In the Edit application, a menu option has been added to allow deletion of a signed audiogram. This became necessary because, in their haste to enter audiograms under heavy workload pressures, users sometimes entered audiograms under the wrong patient and the error was not discovered until after transmission. This would then become a problem when data would be on duplicate systems for the wrong patient. After installing this patch, when a local signed audiogram is deleted, a message with identifying information is sent to the DDC to delete the record there also. Clinicians should use utmost caution in both entering and removing audiograms.

8. **File Changes**
    Numerous fields were added to the AUDIOMETRIC EXAM file to provide the additional data needed for diagnostic and reporting purposes. The data type of many fields was changed at the request of the national program office to more efficiently handle the numbers and text required in the fields. Many that were numeric are now free text.
    Refer to the CHANGES/ADDITIONS TO FILE section for more detailed information.

9. **New Fields on Edit Pages**
    The new editable fields (bullet 8) were added to the Edit program and data type screening was added to give the user instant feedback if a value is unacceptable.

10. **Masking Change**
    Masking is no longer indicated by an asterisk (*), which could originally be placed in any of the pure tone threshold fields. Masking is now indicated only by placing a non-zero numeric value in the 'Masking Level' field for the threshold value and will apply to the 'Final Masked' threshold. If entering only unmasked thresholds, clinicians should enter thresholds in the INITIAL field. They should enter masked thresholds in the MASKED field and the masking level in the MASKING LEVEL field directly below it.

11. **No Response Change**
    The symbol for 'No Response'(+) is now stored in the text field with the numeric value.

12. **No Testing, No Masking**
    'CNM', 'CNT', 'DNT' and 'FLAT' can now be entered in the appropriate text fields in the Edit program and will be displayed on the 10-2364.

13. **Transducer Type**
    Users can now indicate if testing was done via inserts or headphones. This is also displayed on the 10-2364.

14. **Eliminate Duplicate Presentation and Material**
    One selection of the Presentation Method and one selection of the Material, from drop down lists, is now applicable to all of the Word Recognition tests for both ears.

15. Tympanogram Type and Other Test
   Tympanogram Type and 'Other Test' types have been added to the Acoustic Immittance page.

16. Claim Number
   The Claim Number has been added to the Edit form so that it can be included on VA form 10-2364.

17. Maximum Value Change
   Maximum values allowed have been updated and associated 'Hints' have been adjusted. Please refer to the section on <u>limit changes</u>.

18. Hints
   It is now possible for the user to inactivate or reactivate the hint feature.

19. Clinician Title
   The title of the clinician and location will now show on the display.

20. Presentation Method
   CD and Tape have been consolidated into a single Recorded type.

21. About Box
   An 'About' box was added to the main forms to comply with VistA convention.